DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name. I believe I am the origin inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below matter which is claimed and for which a patent is sought on the invention entitled REDUCTION OF THE NEACTIVE HEAVY BYPRODUCTS DURING THE PRODUCTION OF 1,3-PROPANEDIOL the specificat attached hereto unless the following box is checked:	AIM OOTT T OF
was filed on as United States Application Number or PCT International Application Number and was amended on (if applicable).	
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the cleby any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56. I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patentificate, or § 365(a) of any PCT International application which designated at least one country other than the Understand the priority is claimed. International application having a filing date before that of the application on which priority is claimed.	atent or inventor's
PRIOR FOREIGN APPLICATION(S) APPLICATION NUMBER COUNTRY DAY/MONTH/YEAR FILED APPLICATION NUMBER COUNTRY DAY/MONTH/YEAR FILED	Not Claimed
I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below. FILING DATE APPLICATION SERIAL NO. October 3, 2002 FILING DATE APPLICATION SERIAL NO.	i demlication

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application designating the United States, listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

a	etween the filing date of the prior application	and the national or PCT Interna	STATUS-PATENTED, PENDING, ABANDONED
<u>b</u>	etween the filing date of the prior approach	FILING DATE	STATUS-PATENTED, TENDERO, TENDERO,
Г	APPLICATION SERIAL NO.		PENIDDIC ARANDONED
- 1		FILING DATE	STATUS-PATENTED, PENDING, ABANDONED
F	APPLICATION SERIAL NO.	FILING DATE	
- 1	ATEIO		
			•

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and

I hereby appoint the following atter-	ith:		TELEPHONE NUMBER
Trademark Office connected therew	ATTORNEY/AGENT	REGISTRATION NUMBER	(713) 241-3356
NAME	Attorney	26,177	TELEPHONE NUMBER
Donald F. Haas	ATTORNEY/AGENT	REGISTRATION NUMBER	(713) 241-3716
NAME Richard F. Lemuth	Attorney	30,081	Revised June 1995
Richard F. Leman			

SEND CORRESPONDENCE TO:

Donald F. Haas c/o Shell Oil Company **Intellectual Property** P.O. Box 2463 Houston, TX 77252-2463

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY'S DOCKET NO. TH1754 (US)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name)	
John Frederick Knifton	
INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
14855 Memorial Drive #2501, Houston, Texas 77079	United States
POST OFFICE ADDRESS	
14855 Memorial Drive #2501, Houston, Texas 77079	

Talmadge Gail James	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
3233 Windchase Blvd. #1514, Houston, Texas 77082	United States

FULL NAME OF THIRD JOINT INVENTOR, IF ANY (given name, family name) Paul Richard Weider	
THIRD INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
15014 Tramore, Houston, Texas 77083	United States
POST OFFICE ADDRESS	
15014 Tramore, Houston, Texas 77083	

FULL NAME OF FOURTH JOINT INVENTOR, IF ANY (given name, family name)	
Joseph Broun Powell	
FOURTH INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
10506 Normont Drive, Houston, Texas 77070	United States
POST OFFICE ADDRESS	
10506 Normont Drive, Houston, Texas 77070	

FULL NAME OF FIFTH I JOINT INVENTOR, IF ANY (given name, family name)	
Edward Lewis Nielsen	
FIFTH INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
10722 Fawnview Drive, Houston, Texas 77070	United States
POST OFFICE ADDRESS	
10722 Fawnview Drive, Houston, Texas 77070	

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY'S DOCKET NO. TH1754 (US)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR (given name, family name)	
n Charles Komplin	DATE SIGNED
TOR'S SIGNATURE	
	CITIZENSHIP
ENCE Houston Texas 77095	United States
Shangrila Lane, Houston, Texas 77095 Office Address	
Shangrila Lane, Houston, Texas 77095	
NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
NAME OF SECOND 102.0	DATE SIGNED
IND INVENTOR'S SIGNATURE	DAIDORGA
MIN WILL	CITIZENSHIP
DENCE	3
OFFICE ADDRESS	
L NAME OF THIRD JOINT INVENTOR, IF ANY (given name, family name)	
	DATE SIGNED
RD INVENTOR'S SIGNATURE	
	CITIZENSHIP
IDENCE	
ST OFFICE ADDRESS	
TO ANY (siven name family name)	
LL NAME OF FOURTH JOINT INVENTOR, IF ANY (given name, family name)	
SONATE DE	DATE SIGNED
URTH INVENTOR'S SIGNATURE	
	CITIZENSHIP
SIDENCE	
OST OFFICE ADDRESS	
SI OFFICE ADDRESS	
ILL NAME OF FIFTH I JOINT INVENTOR, IF ANY (given name, family name)	
LL NAME OF FIFTH TJOINT BAYESTON, B. L. C. G.	DATE SIGNED
FIH INVENTOR'S SIGNATURE	DATE 21QUED
HIH MACIATOR 2 2004 Management	CITIZENSHIP
ESIDENCE	CITELAGIII
ENIDELICE	
OST OFFICE ADDRESS	